



## PATIENT

Laika Echegaray

## SPECIES

Canine

## BREED

Retriever Mix

## SEX

Spayed Female

## AGE

13 Years

## WEIGHT

48 pounds

## INTERPRETED BY

Eric Lindquist, DMV,  
DABVP(CFM), Cert.  
IVUSS

## IMAGING PERFORMED BY

Dr. Wasserman

## HOSPITAL NAME

Highlands Animal  
Hospital

## REFERRING VET

Dr. Frankenberger

## INVOICE

15027

## DATE

04/11/26

## PRESENTING CLINICAL SIGNS

New grade 2 heart murmur. No cardiac symptoms or medications. Cardiac work up for dentistry. Patient sedated with butorphanol IV for sonogram. Referring vet-requested additional cavity abdominal sonogram survey before anesthetic comprehensive dental. Cardiologist echocardiogram submitted today.

Abnormal PE/Chem/CBC/UA Results: CBC normal. Panel elevated ALP 471 (23-212). HW negative.

## ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

### Urinary System

The **urinary bladder**, trigone, and pelvic urethra to a depth of 3.0 cm presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized, and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some minor age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex. Slight pinpoint mineralizations were noted. The left kidney measured 6.4 cm in length. The right kidney measured 6.64 cm in length.

### Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 0.70 cm width. The right adrenal gland measured 1.1 cm width at the cranial pole and 0.80 cm width at the caudal pole.

### Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted. The spleen measured 2.1 cm width.

### Liver

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some mild age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. An isoechoic to hypoechoic nodule was noted in the left liver measuring 2.75 cm x 1.75 cm.



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**Gastrointestinal**

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

**Pancreas**

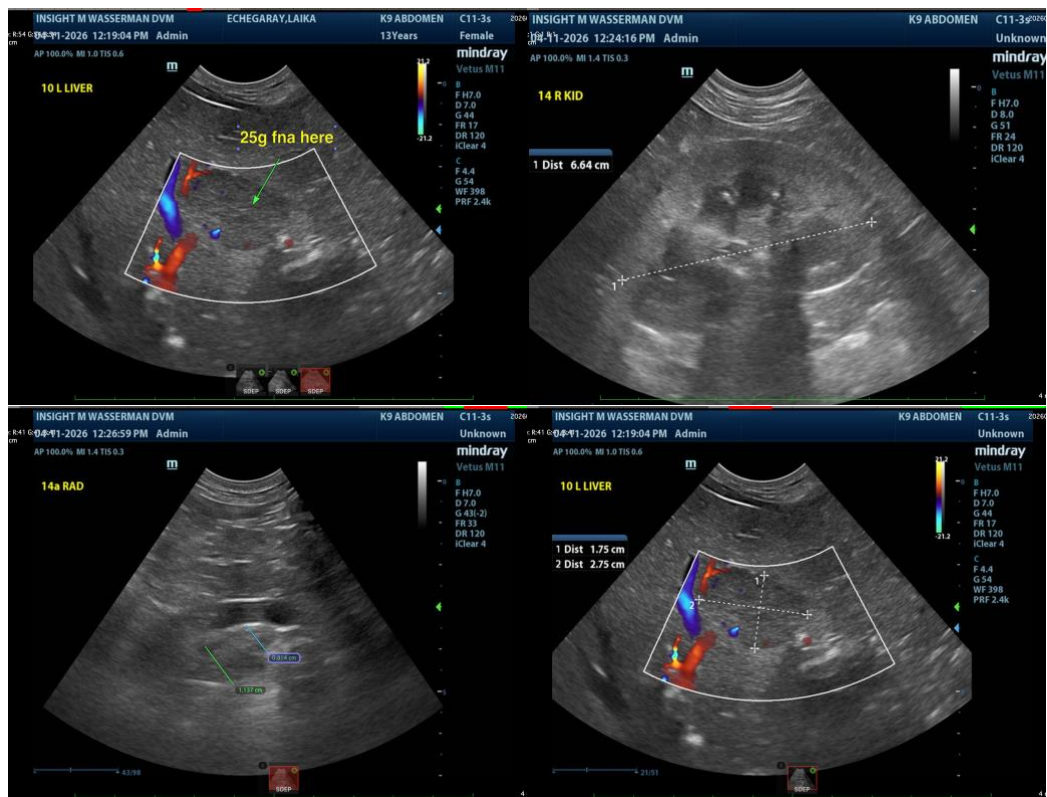
The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

**ULTRASONOGRAPHIC FINDINGS**

- Minor age-related hepatic changes with a focal nodule.
- Age-related abdominal changes otherwise.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

FNA is indicated. Likely nodular hyperplasia with minor potential for emerging neoplasia. Recheck sonogram in one month to assess for any growth of the nodule is recommended.





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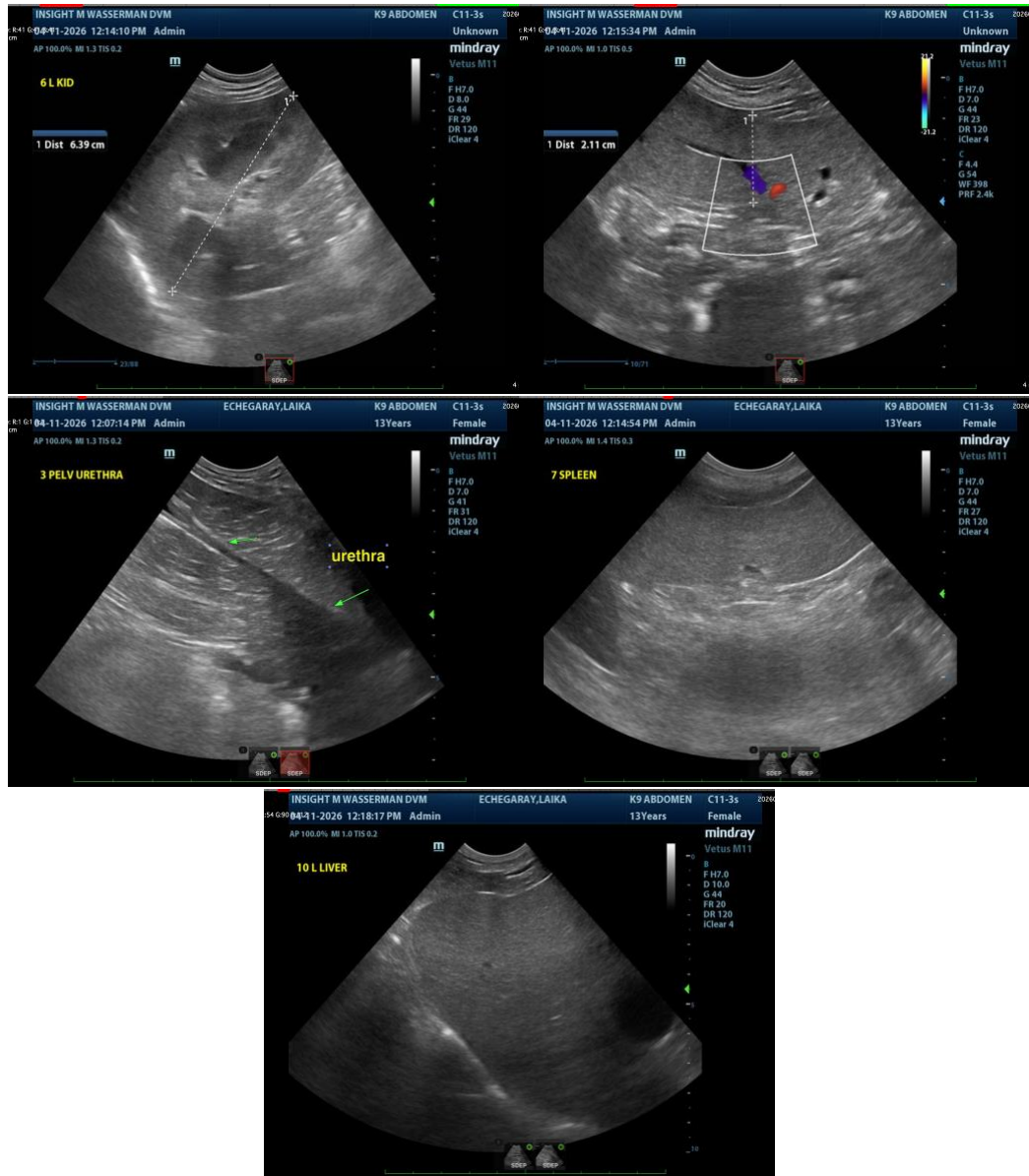
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

Eric Lindquist, DMV, DABVP(CFM), Cert. IVUSS,

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